

IN THE CLAIMS:

1. (Currently Amended) Device comprising:
  - a receiver comprising at least a first receiving chain configured to receive and process ~~for receiving and processing~~ radio frequency signals in a first frequency band and a second receiving chain configured to receive and process ~~for receiving and processing~~ radio frequency signals in a second frequency band;
  - at least a first antenna which is connected to said first receiving chain and in addition via a switching component to said second receiving chain;
  - a tuning component configured to shift ~~for shifting~~ a frequency response of said first antenna from said first frequency band to a second frequency band; and
  - a controlling portion configured to cause ~~causing~~ said tuning component to shift said frequency response of said first antenna from said first frequency band to said second frequency band and causing said switching component to connect said first antenna to said second receiving chain, in case a wideband noise is expected in said first frequency band.
2. (Currently Amended) Device according to claim 1, further comprising a communication system transmitter configured to transmit ~~for transmitting~~ signals via a radio interface, wherein a transmission of signals by said communication system transmitter causes wideband noise in said first frequency band, and wherein wideband noise in said first frequency band is expected by said controlling portion whenever said communication system transmitter is transmitting signals causing wideband noise in said first frequency band.
3. (Currently Amended) Device according to claim 1, further comprising a second antenna, which second antenna has a frequency response at said second

frequency band and which second antenna is equally connected via said switching component to said second receiving chain, wherein said controlling portion is configured to cause ~~causes~~ said switching component to disconnect said second antenna from said second receiving chain, in case a wideband noise is expected in said first frequency band.

4. (Currently Amended) Device according to claim 3, wherein said controlling portion is configured to cause ~~causes~~ said switching component to connect said first antenna to said second receiving chain and to disconnect said second antenna from said second receiving chain, in case a wideband noise is expected in said second frequency band.
5. (Currently Amended) Device according to claim 4, further comprising a communication system transmitter configured to transmit ~~for transmitting~~ signals via a radio interface, wherein a transmission of signals by said communication system transmitter causes wideband noise in said second frequency band, and wherein wideband noise in said second frequency band is expected by said controlling portion whenever said communication system transmitter is transmitting signals causing wideband noise in said second frequency band.
6. (Previously Presented) Device according to claim 1, wherein said receiver is a Global Positioning System receiver for receiving and processing Global Positioning System signals transmitted by Global Positioning System satellites.
7. (Previously Presented) Device according to claim 6, wherein said first frequency band is a Global Positioning System L1 band and wherein said second frequency band is one of a Global Positioning System L2 band and a Global Positioning System L5 band.

8. (Previously Presented) Method for improving the performance of a receiver, which receiver comprises at least a first receiving chain for receiving and processing radio frequency signals in a first frequency band and a second receiving chain for receiving and processing radio frequency signals in a second frequency band, wherein at least a first antenna is connected to said first receiving chain and in addition via a switching component to said second receiving chain, said method comprising:
  - determining whether a wideband noise is expected in said first frequency band; and
  - shifting a frequency response of said first antenna from said first frequency band to a second frequency band and causing said switching component to connect said first antenna to said second receiving chain, in case a wideband noise is determined to be expected in said first frequency band.
9. (Previously Presented) Method according to claim 8, wherein said receiver is comprised in a single device with a communication system transmitter, a transmission of signals by said communication system transmitter causing wideband noise in said first frequency band, and wherein determining whether a wideband noise is expected in said first frequency band comprises detecting whether said communication system transmitter is transmitting signals via a radio interface.
10. (Previously Presented) Method according to claim 8, wherein a second antenna is connected to said receiver, which second antenna has a frequency response at said second frequency band, said method further comprising preventing a processing of radio frequency signals received via said second antenna, in case a wideband noise is determined to be expected in said first frequency band.
11. (Previously Presented) Method according to claim 10, further comprising:

determining whether a wideband noise is expected in said second frequency band;

enabling radio frequency signals in said second frequency band received via said first antenna to be processed by said receiver, in case a wideband noise is determined to be expected in said second frequency band; and

preventing a processing of radio frequency signals received via said second antenna by said receiver, in case a wideband noise is determined to be expected in said second frequency band.

12. (Previously Presented) Method according to claim 11, wherein said receiver is comprised in a single device with a communication system transmitter, wherein a transmission of signals by said communication system transmitter causes wideband noise in said second frequency band, and wherein determining whether a wideband noise is expected in said second frequency band comprises detecting whether said communication system transmitter is transmitting signals via a radio interface.
13. (Previously Presented) Method according to claim 8, wherein said receiver is a Global Positioning System receiver for receiving and processing Global Positioning System signals transmitted by Global Positioning System satellites.
14. (Original) Method according to claim 13, wherein said first frequency band is a Global Positioning System L1 band and wherein said second frequency band is one of a Global Positioning System L2 band and a Global Positioning System L5 band.
15. (Previously Presented) Mobile telephone with global positioning system (GPS) receiver capability, comprising:
  - a receiver having an antenna for receiving and a processor for processing GPS signals received at least in a first frequency band;

a tuning component responsive to a control signal for shifting a frequency response of said antenna from said first frequency band to a second frequency band; and

a control responsive to operation of said telephone acting as a radio transmitter for providing said control signal.

16. (Previously Presented) Apparatus for improving the performance of a receiver, which receiver comprises at least a first receiving chain for receiving and processing radio frequency signals in a first frequency band and a second receiving chain for receiving and processing radio frequency signals in a second frequency band, wherein at least a first antenna is connected to said first receiving chain and in addition via a switching component to said second receiving chain, said apparatus comprising:

means for determining whether a wideband noise is expected in said first frequency band; and

means for shifting a frequency response of said first antenna from said first frequency band to a second frequency band and causing said switching component to connect said first antenna to said second receiving chain, in case a wideband noise is determined to be expected in said first frequency band.

17. (New) Device according to claim 1, wherein said device is a mobile phone.

18. (New) Apparatus comprising a controlling portion,

said controlling portion being configured to determine whether a wideband noise is expected in a first frequency band;

said controlling portion being configured to cause a tuning component to shift a frequency response of a first antenna from a first frequency band to a second frequency band in case a wideband noise is determined to be expected in said first frequency band, said first antenna being connected to a first receiving chain for receiving and processing radio frequency signals in a first frequency band and in addition via a

switching component to a second receiving chain for receiving and processing radio frequency signals in a second frequency band; and said controlling portion being configured to cause said switching component to connect said first antenna to said second receiving chain in case a wideband noise is determined to be expected in said first frequency band.

19. (New) Apparatus according to claim 18, wherein said controlling portion is configured to expect wideband noise in said first frequency band whenever a communication system transmitter is transmitting signals via a radio interface causing wideband noise in said first frequency band.
20. (New) Apparatus according to claim 18, wherein said controlling portion is configured to cause said switching component to disconnect a second antenna having a frequency response at said second frequency band from said second receiving chain, in case a wideband noise is expected in said first frequency band.
21. (New) Apparatus according to claim 20, wherein said controlling portion is configured to cause said switching component to connect said first antenna to said second receiving chain and to disconnect said second antenna from said second receiving chain, in case a wideband noise is expected in said second frequency band.
22. (New) Apparatus according to claim 21, wherein said controlling portion is configured to expect wideband noise in said second frequency band whenever a communication system transmitter is transmitting signals via a radio interface causing wideband noise in said second frequency band